

## Material Safety Data Sheet

Required under USDL Safety and Health Regulations  
for Shipyard Employment (29 CFR 1915)

## U.S. Department of Labor

Occupational Safety and Health Administration

PDRSF  
11.3.195.161  
NO DATEOMB No. 1218-0074  
Expiration Date 05/31/86

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## Section I

Manufacturer's Name

Emergency Telephone Number

TURRET STEEL CORP.-A DISTRIBUTOR (412) 266-8200 or local Poison Control Center

Address (Number, Street, City, State, and ZIP Code)

P.O. BOX 55

Chemical Name

and Synonyms

CARBON &amp; LOW ALLOY STEEL BARS, BILLETS.

Trade Name

and Synonyms

LEETSDALE, PA 15056

Chemical

Family

N/A

Formula

N/A.

## Section II - Hazardous Ingredients

## Paints, Preservatives, and Solvents

	%	TLV (Units)	Alloys and Metallic Coatings	%	TLV (Units)
Pigments	N/A		Base Metal	95/99	10/15 mg/m <sup>3</sup>
Catalyst	N/A		Alloys		
Vehicle	N/A		Metallic Coatings		
Solvents	N/A		Filler Metal		
Additives	N/A		Plus Coating or Core Flux	N/A	
Others	N/A		Others		

## Hazardous Mixtures of Other Liquids, Solids or Gases

*C to 1.10	Si-.65	Mn-.30	SO <sub>2</sub> > 13 mg/m <sup>3</sup>	%	TLV (Units)
Mn-1.90	Cr-.70	Al-.06	CO <sub>2</sub> > 55 mg/m <sup>3</sup>		
P-.12	Ni-2.00	Ti-.005			
S-.35	Cr-1.20	Co-.5000 ppm			

## Section III - Physical Data

Boiling Point (*F)	2800	Specific Gravity (H <sub>2</sub> O=1)	N/A
Vapor Pressure (mm Hg)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate	=1) N/A
Solubility in Water	N/A		

## Appearance and Odor

ODORLESS SOLID WITH METALLIC LUSTER.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	STEEL BARS, BILLETS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD.	Flammable Limits	LeI	N/A	UeI	N/A
Extinguishing Media	N/A					
Special Fire Fighting Procedures	N/A					

## Additional Fire and Explosion Hazards

N/A

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# Section V - Health Hazard Data

Threshold Limit Value

10/15 mg/m<sup>3</sup> IS CONSIDERED A NUISANCE DUST.

## Effects of Overexposure

IN ITS SOLID FORM, NO TOXIC EFFECTS WOULD BE EXPECTED. PROLONGED EXPOSURE TO FUMES OR DUST GENERATED DURING HEATING, CUTTING, WELDING, OR MELTING MAY CAUSE RESPIRATORY OR OTHER ADVERSE HEALTH EFFECTS.

## Emergency First Aid Procedures

IN THE EVENT OF OVEREXPOSURE, MOVE THE INDIVIDUAL TO FRESH AIR. SEEK MEDICAL ATTENTION PROMPTLY IF NECESSARY.

# Section VI - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X		

Incompatibility (Materials to Avoid)

## Hazardous Decomposition Products

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X		

# Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

NOT APPLICABLE TO STEEL IN THE SOLID STATE.

## Waste Disposal Method

# Section VIII - Special Protection Information

Respiratory Protection (Specify Type) NIOSH APPROVED DUST/FUME RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION. THE SELECTION DEPENDS ON THE AMOUNT OF EXPOSURE.

Ventilation	Local Exhaust	ADEQUATE VENTILATION IS RECOMMENDED WHEN TORCH CUTTING, WELDING AND BURNING.	Special
	Mechanical (General)	SHOULD BE SUFFICIENT TO KEEP FUMES BELOW 5 mg/m <sup>3</sup> .	Other

## Protective Gloves

PROTECTIVE GLOVES SHOULD BE WORN.

## Eye Protection

SAFETY GLASSES OR GOGGLES.

## Other Protective Equipment

APPROPRIATE PROTECTIVE CLOTHING WHEN WELDING OR BURNING: SAFETY FOOTWEAR WHEN APPROPRIATE.

# Section IX - Special Precautions

## Precautions to be Taken in Handling and Storing

DURING OPERATIONS WHERE HIGH CONCENTRATIONS OF AIRBORNE PARTICULATES AND NOXIOUS GASES ARE GENERATED, PRECAUTIONS SHOULD BE TAKEN NOT TO BREATHE THE METAL FUMES AND DUSTS.

## Other Precautions

IARCS LIST OF CARCINOGENS INCLUDE NICKEL AND CHROMIUM. FUME CONTROL IS NECESSARY DURING FUME GENERATING OPERATIONS.